

CLAIMS

1. A heat exchanger of a ventilating system, comprising:
heat exchange plates which are laminated at a predetermined interval
and divide an outdoor air path through which outdoor air passes and an indoor
5 air path through which indoor air passes;
a plurality of embossing protrusions which are formed on the outdoor
air path divided by the heat exchange plates, for generating turbulence in the
outdoor air which flows in the outdoor air path; and
a corrugation plate which is positioned in the indoor air path, for
10 securing a space through which the indoor air passes.
2. The exchanger of claim 1, wherein a partition for preventing
inflow of indoor air into the outdoor air path is attached on both side surfaces of
the outdoor air path.
- 15 3. The exchanger of claim 1, wherein the embossing protrusions
are formed in a convex shape having a predetermined height on the upper
surface of the heat exchange plate.
4. The exchanger of claim 1, wherein the embossing protrusions
20 of a first row are aligned at a predetermined interval at the front of the heat
exchange plate, embossing protrusions of a second row are aligned at a
predetermined interval at the rear of the embossing protrusions of the first row,
the embossing protrusions of the first row and the second row are sequentially

aligned, and the embossing protrusions of the second row are respectively positioned in spaces among the embossing protrusions of the first row.

5 5. The exchanger of claim 1, wherein the outdoor air passing through the outdoor air path and the indoor air passing through the indoor air path which flow being crossed with each other.

6. A heat exchanger of a ventilating system, comprising:
a heat exchange plate for dividing an outdoor air path through which
10 outdoor air passes and an indoor air path through which indoor air passes, which are laminated at a predetermined interval;

a corrugation plate which is attached on the outdoor air path which is divided by the heat exchange plates, for securing a space through which the outdoor air passes; and

15 a plurality of embossing protrusions which are positioned in the indoor air path, for generating turbulence in the indoor air flowing in the indoor air path.

7. The exchanger of claim 6, wherein partitions for preventing inflow of outdoor air to the indoor air path are respectively disposed on both
20 side surfaces of the indoor air path.

8. The exchanger of claim 6, wherein the embossing protrusion is formed in a convex shape having a predetermined height on a upper surface of

the heat exchange plate.

9. The exchanger of claim 6, wherein the embossing protrusions of a first row are aligned at a predetermined interval at the front of the heat exchange plate, the embossing protrusions of a second row are aligned at a predetermined interval at the rear of the embossing protrusions of the first row, the embossing protrusions of the first and second rows are sequentially aligned, and the embossing protrusions of the second row are positioned in spaces among the embossing protrusions of the first row.

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10. The exchanger of claim 6, wherein the outdoor air passing through the outdoor air path and the indoor air passing through the indoor air path which flow being crossed with each other.

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11. A heat exchanger of a ventilating system, comprising:

heat exchanging plates which are laminated at a predetermined interval for dividing an outdoor air path through which outdoor air passes and an indoor air path through which indoor air passes;

a plurality of outdoor embossing protrusions which are formed on the outdoor air path divided by the heat exchange plates, for generating turbulence in the outdoor air which flows in the outdoor air path; and

a plurality of indoor embossing protrusions which are formed in the indoor air paths, for generating turbulence in the indoor air which flows in the

indoor air path.